



Quick Installation Guide: Thor Fiber F-EDFA-16 16DB Optical Amplifier

Avoid Direct Viewing: Never look directly at the EDFA output connector or the optical jumper connected to the EDFA. Doing so may cause eye damage due to the amplified optical signal.

1. **Rack Installation:**
 - Install the EDFA securely in a 19" rack for stability.
2. **Power Connection:**
 - Connect both primary and secondary power cords securely to the device.
3. **Fiber Optic Connection:**
 - Remove the dust caps from the IN and OUT fiber optic ports.
4. **Input Connection:**
 - Connect a 1550nm Light source to the input port.
 - Ensure incoming power is between +8 to 0dBm.
 - Use single-mode fiber terminated with ST/APC angle polished connectors ONLY.
5. **Output Connection:**
 - Connect the EDFA OUT to the optical splitter or patch panel.
 - Use single-mode fiber terminated with ST/APC angle polished connectors ONLY.
 - **Important: Complete this step before turning ON the EDFA.**
6. **Power ON Sequence:**
 - Turn ON both power switches. This initializes the device.
 - At this stage, the EDFA will not be fully operational. The LCD display will show an output power value of -60dBm.
7. **Activation:**
 - Use the front panel key to turn ON the EDFA.
 - This will initialize the device further and activate the laser, outputting a +16dBm amplified signal.
 - The front panel display and LED indicators will show the device status.

LED Indicators:

- **Status LED:** All LEDs are RED when nothing is connected or detected.
- **Status LED:** Shows RED if NO Input, OFF when Input is detected or when the KEY is turned ON.
- **LASER IN LED:** Shows incoming signal detection. LED turns OFF when input is detected. The LCD displays incoming optical power in dBm.
- **LASER OUT LED:** Turns OFF when incoming signal is detected and KEY is TURNED ON.
- **Power LED:** Indicates POWER ON status (RED).

- **Web Interface:**

- The EDFA has a web interface accessible at IP address **192.168.0.22**.
- Use the username "admin" and password "123456" to log in.
- Ensure your PC's network card is set to the same subnet (e.g., 192.168.0.100) to connect to the device.

Device status shows OPTICAL Input Power / Output Power and other DC power values

The screenshot shows the 'Device Status' page of the web interface. On the left is a navigation menu with options: Device Status (selected), Device Settings, Alarm Status, Alarm Properties, Network Settings, Change Password, Reset Settings, Update Firmware, and Device Logs. The main content area displays the following data:

- Device Model: F-EDFA-16
- Serial Number: 240227143254
- Unit Temperature: 23 °C
- Input Power: 8.7 dBm
- Output Power: 2.7 dBm
- DC Power +5V: 5.0 V
- DC Power +12V: 10.9 V
- DC Power +3.3V Left: 3.6 V
- DC Power +12V Left: 11.7 V
- DC Power +3.3V Right: none V
- DC Power +12V Right: none V

Below the readings is a table for pump status:

Pump	BIAS	TEMP	TEC
1	0 mA	24.4 °C	0.00 A
2			
3			

Attenuation Setup: The Output can be attenuated 1,2,3,or 4db

Set "Set Output ATT" to 16-12dB , The Maximum Output power is 16dBm

The screenshot shows the 'SNMP Agent WEB Manager' interface. The title bar includes an image of a hand holding a fiber optic cable and the text 'SNMP Agent WEB Manager'. The left navigation menu includes: Device Status, Device Settings (selected), Alarm Status, Alarm Properties, Network Settings, and Change Password. The main content area is titled 'Device Settings' and contains the following configuration options:

- Port Output: 16.0 dBm
- Set Output ATT: 12.0 dB

A 'Submit' button is located below these settings.